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(54) Title: MUTANT SODIUM CHANNEL NAv1.7 AND METHODS RELATED THERETO

(57) Abstract: Described are mutant Na_v1.7 sodium channel alpha-subunits and nucleic acid sequences encoding such mutants. Further described are methods for characterizing a nucleic acid sequence that encodes a Na_vl sodium channel alpha-subunit, methods for determining a Na,1.7 haplotype, methods for determining a subject's predisposition to a neurologic disorder associated with a sodium channel mutation, and methods of identifying a compound that modulates mutant Nav1.7 sodium channels. Other materials, compositions, articles, devices, and methods relating to mutant Na_v1.7 sodium channels are also described herein.

